

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P563850

Luminaire Tested: **SQ4-PR1-025U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563850
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

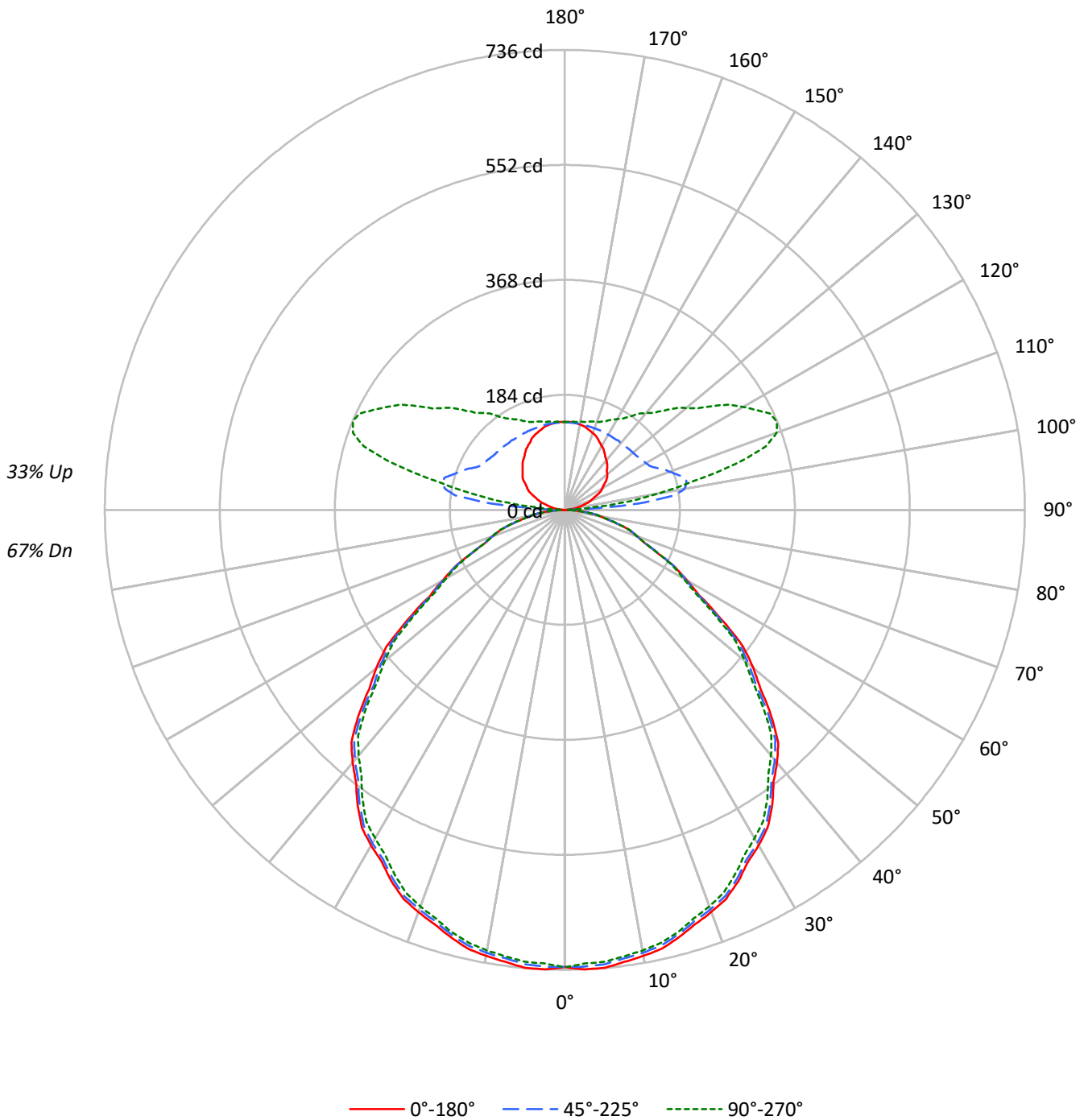
Lumens per Lamp: N/A
Luminaire Lumens: 2741.6 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	86	80	74	88	81	76	71	72	68	64	64	61	58	57	54	52	48
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	47	43	45	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	52	44	39	46	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6751	6751	6751
5°	6811	6759	6724
10°	6789	6743	6707
15°	6760	6718	6681
20°	6726	6682	6633
25°	6678	6633	6557
30°	6606	6559	6466
35°	6509	6453	6360
40°	6360	6292	6179
45°	6101	5994	5872
50°	5644	5509	5400
55°	4927	4814	4713
60°	4152	4117	4036
65°	3591	3604	3578
70°	3299	3315	3315
75°	3169	3169	3190
80°	2981	3013	2981
85°	2403	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	2.5
10°-20°	198.0	7.2
20°-30°	298.6	10.9
30°-40°	355.8	13.0
40°-50°	350.7	12.8
50°-60°	268.1	9.8
60°-70°	165.9	6.1
70°-80°	94.2	3.4
80°-90°	29.4	1.1
90°-100°	68.6	2.5
100°-110°	180.2	6.6
110°-120°	186.9	6.8
120°-130°	149.9	5.5
130°-140°	117.6	4.3
140°-150°	90.3	3.3
150°-160°	65.0	2.4
160°-170°	39.8	1.5
170°-180°	13.4	0.5
0°-30°	565.7	20.6
0°-40°	921.5	33.6
0°-60°	1540.3	56.2
0°-90°	1829.8	66.7
90°-120°	435.7	15.9
90°-150°	793.5	28.9
90°-180°	912.0	33.3
0°-180°	2741.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	735	727	730	727	726	70
15°	708	700	703	701	700	200
25°	656	648	652	645	644	302
35°	578	571	573	565	565	361
45°	468	461	459	451	450	358
55°	306	301	299	294	293	274
65°	164	163	165	164	164	167
75°	89	89	89	90	90	94
85°	23	24	25	25	25	26
90°	1	3	7	4	4	2
95°	9	36	118	61	42	10
105°	32	49	199	302	282	34
115°	58	70	160	318	363	57
125°	80	90	145	245	289	71
135°	96	105	141	198	224	74
145°	111	118	139	169	182	69
155°	125	129	139	152	157	58
165°	135	137	139	144	146	38
175°	141	141	140	142	142	13
180°	141	141	141	141	141	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	731.7	731.7	731.7	731.7	731.7
2.5°	736.2	729.8	731.7	730.1	726.6
5°	735.4	727.4	729.8	727.2	726.0
7.5°	729.8	721.9	724.2	721.7	721.0
10°	724.7	717.3	719.7	717.1	715.9
12.5°	719.2	711.3	714.1	711.1	709.9
15°	707.7	700.3	703.3	700.8	699.5
17.5°	695.1	687.2	690.2	687.3	685.7
20°	685.0	677.6	680.6	676.2	675.6
22.5°	673.9	666.5	669.5	663.6	663.5
25°	656.0	648.0	651.6	644.7	644.1
27.5°	634.7	627.3	630.3	623.3	622.5
30°	620.1	612.7	615.7	608.1	606.9
32.5°	603.5	596.6	599.1	591.5	590.8
35°	577.9	571.1	572.9	565.3	564.7
37.5°	548.8	542.6	543.6	535.3	534.7
40°	528.1	521.9	522.4	513.6	513.0
42.5°	505.4	499.3	498.7	489.9	489.3
45°	467.6	461.4	459.4	451.2	450.0
47.5°	424.5	418.3	414.5	407.8	407.0
50°	393.2	387.1	383.8	378.1	376.2
52.5°	359.5	353.3	350.5	345.3	343.5
55°	306.3	301.3	299.3	294.3	293.0
57.5°	255.7	252.4	251.8	246.9	246.4
60°	225.0	223.1	223.1	218.7	218.7
62.5°	198.8	197.4	198.4	195.5	195.0
65°	164.5	163.3	165.1	163.9	163.9
67.5°	137.4	137.4	138.5	138.0	138.0
70°	122.3	122.3	122.9	122.9	122.9
72.5°	108.6	108.2	109.8	109.8	109.3
75°	88.9	88.9	88.9	89.5	89.5
77.5°	69.2	69.3	69.8	69.7	69.2
80°	56.1	56.7	56.7	56.1	56.1
82.5°	43.0	43.6	43.6	43.5	43.0
85°	22.7	23.9	25.2	25.2	25.2
87.5°	6.7	9.1	11.5	10.8	10.3
90°	0.9	2.7	7.2	3.6	3.6
92.5°	3.8	18.2	40.4	17.9	11.5
95°	9.0	35.5	118.1	60.9	41.5
97.5°	15.7	39.0	176.7	140.5	103.5
100°	20.7	41.9	194.8	197.4	153.3
102.5°	25.1	44.8	199.8	245.8	208.1
105°	32.5	49.2	199.3	302.5	282.2
107.5°	40.0	55.6	187.9	331.9	336.9
110°	45.1	59.2	178.5	339.5	360.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.1	63.5	169.9	334.7	367.2
115°	57.7	70.1	159.6	318.4	363.4
117.5°	65.1	76.4	152.6	295.8	345.7
120°	69.4	80.0	149.7	280.6	329.1
122.5°	73.8	84.3	147.5	265.5	313.2
125°	80.3	89.9	145.2	245.4	289.4
127.5°	85.5	95.4	143.2	229.2	266.4
130°	88.4	98.9	142.5	219.0	253.4
132.5°	91.3	101.8	141.7	210.3	241.1
135°	95.6	105.3	140.7	198.1	224.5
137.5°	100.1	109.6	140.5	188.9	210.6
140°	103.7	112.5	139.8	181.7	202.0
142.5°	106.6	114.7	139.8	176.6	194.0
145°	110.9	118.0	138.9	168.9	182.1
147.5°	115.2	122.1	138.9	162.6	173.5
150°	118.1	124.3	138.9	158.9	167.7
152.5°	121.0	125.8	138.9	156.0	162.7
155°	125.3	128.9	138.9	152.5	156.9
157.5°	128.6	131.9	138.9	149.4	152.6
160°	130.7	133.4	138.9	147.9	149.7
162.5°	132.9	134.8	138.9	146.5	148.2
165°	135.3	137.0	138.9	144.3	146.1
167.5°	137.4	138.3	139.8	143.4	144.1
170°	138.9	139.7	139.8	143.4	143.4
172.5°	139.6	139.8	139.8	142.6	141.9
175°	140.7	140.7	139.8	141.6	141.6
177.5°	140.7	140.7	139.9	141.4	140.7
180°	140.7	140.7	140.7	140.7	140.7

(END OF REPORT)